CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.05/MVP/CEMENT/2014-15 Date: 01.06.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. Ninganagowda V. Patil,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Road and drains at Palanahalli in Ward No.05 Byatarayanapura Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-PMT/518/2013-14 Dated: 24.02.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
3	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.05/MVP/SAND/2014-15 : 01.06.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Ninganagowda V. Patil,** Contractor, Bangalore.

Name of Work : Improvements to Road and drains at Palanahalli in Ward No.05 Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/518/2013-14 Dated: 24.02.2014

Date of Testing : 01.06.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	70	3.50	3.50	96.5	90-100
2.36	168	8.40	11.90	88.1	75-100
1.18	490	24.50	36.40	63.6	55-90
600 Micron	450	22.50	58.90	41.1	35-59
300 Micron	492	24.60	83.50	16.5	8-30
150 Micron	205	10.25	93.75	6.3	0-10

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.05/MVP/AGG/2014-15 : 01.06.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Ninganagowda V. Patil,** Contractor, Bangalore.

Name of Work : Improvements to Road and drains at Palanahalli in Ward No.05 Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/518/2013-14 Dated: 24.02.2014

Date of Testing : 01.06.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **26000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1015	3.90	3.90	96.10	95-100
20	16852	64.82	68.72	31.28	30-70
10	5026	19.33	88.05	11.95	10-35
4.75	2651	10.20	98.25	1.75	0-5

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.05/MVP/STEEL/2014-15

20.06.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Ninganagowda V. Patil,** Contractor, Bangalore.
Name of the work	:	Improvements to Road and drains at Palanahalli in Ward No.05 Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-PMT/518/2013-14 Dated: 24.02.2014
Date of Test	:	20.06.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.15	O.K	O.K

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.05/MVP/STEEL/2014-15 20.06.2014

TEST REPORT ON REINFORCEMENT STEEL

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Ninganagowda V. Patil,** Contractor, Bangalore.

Name of the work : Improvements to Road and drains at Palanahalli in Ward No.05 Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/518/2013-14 Dated: 24.02.2014

Date of Test : 20.06.2014

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	515	558	13.40	O.K	O.K

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Job No.: CTCE/BBMP/W.No.05/MVP/CUBE/2014-15 22.07.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. Ninganagowda V. Patil,** Contractor, Bangalore.
Name of the work	: Improvements to Road and drains at Palanahalli in Ward No.05 Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-PMT/518/2013-14 Dated: 24.02.2014
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.06.2014	22.07.2014	8.296	478.2	21.25
2	24.06.2014	22.07.2014	8.364	502.3	22.32
3	24.06.2014	22.07.2014	8.425	528.9	23.51

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Job No.: CTCE/BBMP/W.No.05/MVP/CUBE/2014-15 25.07.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. Ninganagowda V. Patil,** Contractor, Bangalore.
Name of the work	: Improvements to Road and drains at Palanahalli in Ward No.05 Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-PMT/518/2013-14 Dated: 24.02.2014
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.06.2014	25.07.2014	8.159	486.5	21.62
2	27.06.2014	25.07.2014	8.367	536.4	23.84
3	27.06.2014	25.07.2014	8.288	510.6	22.69

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